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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,577	06/30/2006	Zhizhong Li	CPALP002	1565
58766 Beyer Law Gro	7590 08/24/200 <b>up</b> LLP	EXAMINER		
P.O. BOX 1687	, -	MALZAHN, DAVID H		
Cupertino, CA 95015-1687			ART UNIT	PAPER NUMBER
			2193	
			NOTIFICATION DATE	DELIVERY MODE
			08/24/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USPTOmail@beyerlaw.com

	Application No.	Applicant(s)				
Office Action Comments	10/553,577	LI ET AL.				
Office Action Summary	Examiner	Art Unit				
	DAVID H. MALZAHN	2193				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the co	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	=					
<ul> <li>2a) This action is FINAL.</li> <li>2b) This action is non-final.</li> <li>3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits</li> </ul>						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
ologod in addordance with the practice and c	x parte Quayre, 1000 0.2. 11, 10	0.0.210.				
Disposition of Claims						
<ul> <li>4) Claim(s) 1-15 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) Claim(s) is/are allowed.</li> <li>6) Claim(s) 1-15 is/are rejected.</li> <li>7) Claim(s) is/are objected to.</li> <li>8) Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Application Papers						
9) ☐ The specification is objected to by the Examiner.  10) ☑ The drawing(s) filed on 17 October 2005 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priorical application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National	Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are directed to a method or process for adding a plurality of numbers via a mathematical algorithm to calculate a sum. The claims fail the <u>Bilski</u> "machine -or-transformation test". The claims fail the machine part of the test because they fail to be tied to a particular apparatus and the claims fail the transformation part of the test because they do not transform an article or material to a different state or thing.

Also, since the claims are directed to a method or process for adding a plurality of numbers via a mathematical algorithm to calculate a sum the claimed invention covers every substantial practical application of the mathematical algorithm. Since the claims cover every substantial practical application of the mathematical algorithm the claims for all practical purposes pre-empt the mathematical algorithm, note <u>Benson</u>, 175 USPQ 673.

#### Claim Rejections - 35 USC § 112

2. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are required to be rewritten in accordance with U.S. practice. A method claim should be basically a sequence of actively performed steps and an apparatus claim should be basically a combination of structurally connected elements. Claims are allowed to have only one capital letter. The phrases "the operation", claim 1, line 4 and "the 2K registers", claim 8, line 9 are exemplary of phrases that lack clear antecedent basis. In claim 3 the third step contradicts the second step because the second step call for summing all k numerals. Subject matter in dependent claims fail to be clearly related to the subject matter of the claims on which they are dependent, e.g. the "counterpart scratching network" of claim 9 fails to be clearly related to the K-layer arithmetic unit of claim 8.

### Claim Objections

3. Claim 4 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot be dependent on a multiple dependent claim.

#### **Specification**

4. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

## Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DAVID H. MALZAHN whose telephone number is (571)272-

3727. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lewis A. Bullock Jr, can be reached on 571-272-3759. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/David H. Malzahn/ Primary Examiner, Art Unit 2193 David H. Malzahn Primary Examiner Art Unit 2193